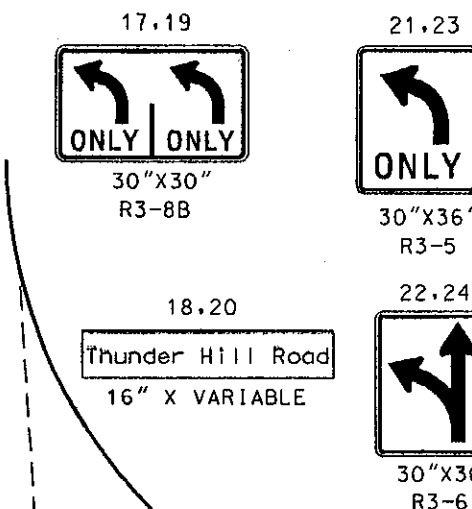


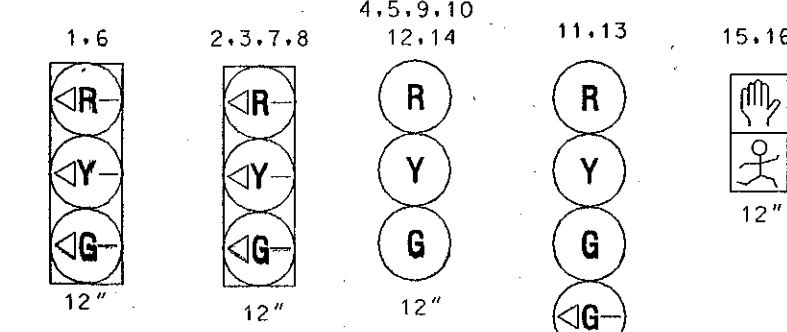
CONSTRUCTION DETAILS

1. REMOVE EXISTING SIGNAL HEADS ON MAST ARM. (INCLUDING PED SIGNAL) AND REPLACE WITH NEW BLACK-FACE SIGNAL HEADS IN SAME LOCATION.
2. INSTALL NEW ONE-WAY, THREE-SECTION SIGNAL HEAD ON EXISTING MAST ARM.
3. INSTALL OPTICOM EYE AND ASSOCIATED WIRING ON EXISTING MAST ARM.
4. USE EXISTING CONDUIT.
5. USE EXISTING HANDHOLE.
6. INSTALL D-PANEL WITH HARNESS, AND DISCRIMINATOR PANEL IN EXISTING CABINET.
7. REMOVE EXISTING SIGN AND INSTALL NEW R3-5 AND R3-6 ON EXISTING MAST ARM.

SIGNS

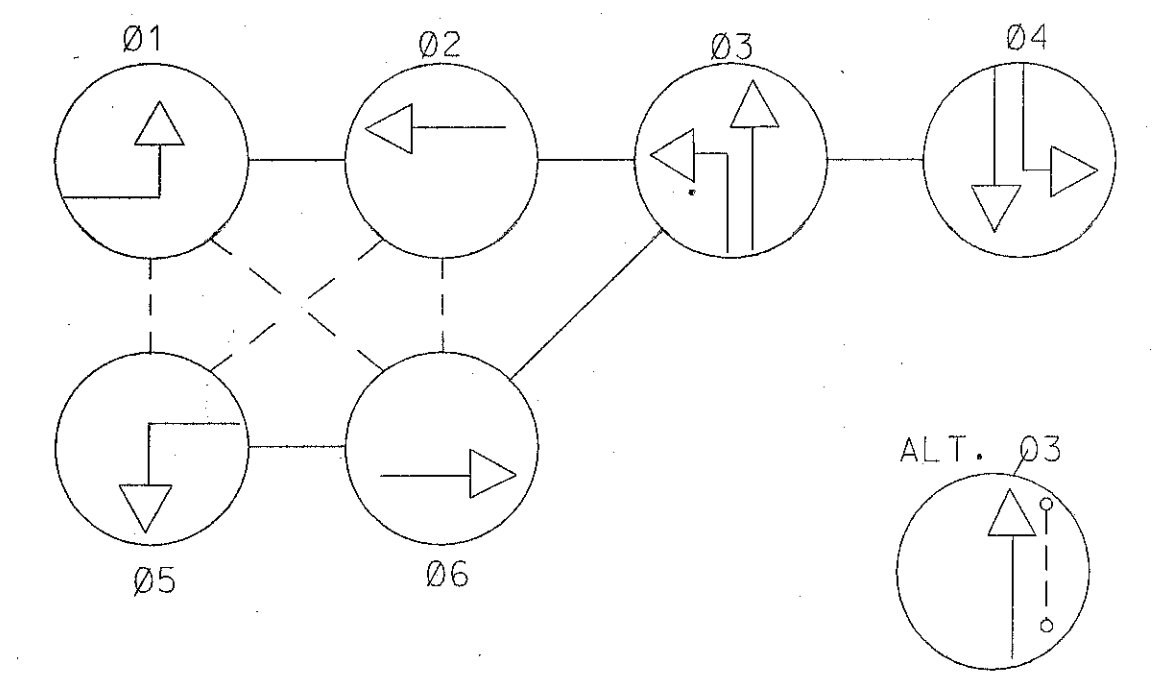


SIGNALS

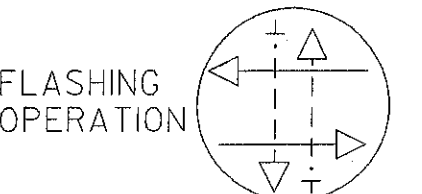


NOTE: SIGNAL HEAD NOS. 1 AND 6 ARE NEW BLACK-FACE NEARSIDES AND ALL OTHER EXISTING SIGNAL HEADS WILL BE REMOVED AND REPLACED WITH NEW BLACK-FACED SIGNAL HEADS IN SAME LOCATION. SIGNALS 19 AND 20 ARE NEW AND ALL OTHER SIGNALS ARE EXISTING AND WILL REMAIN.

NEMA PHASING



PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY
PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY



EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

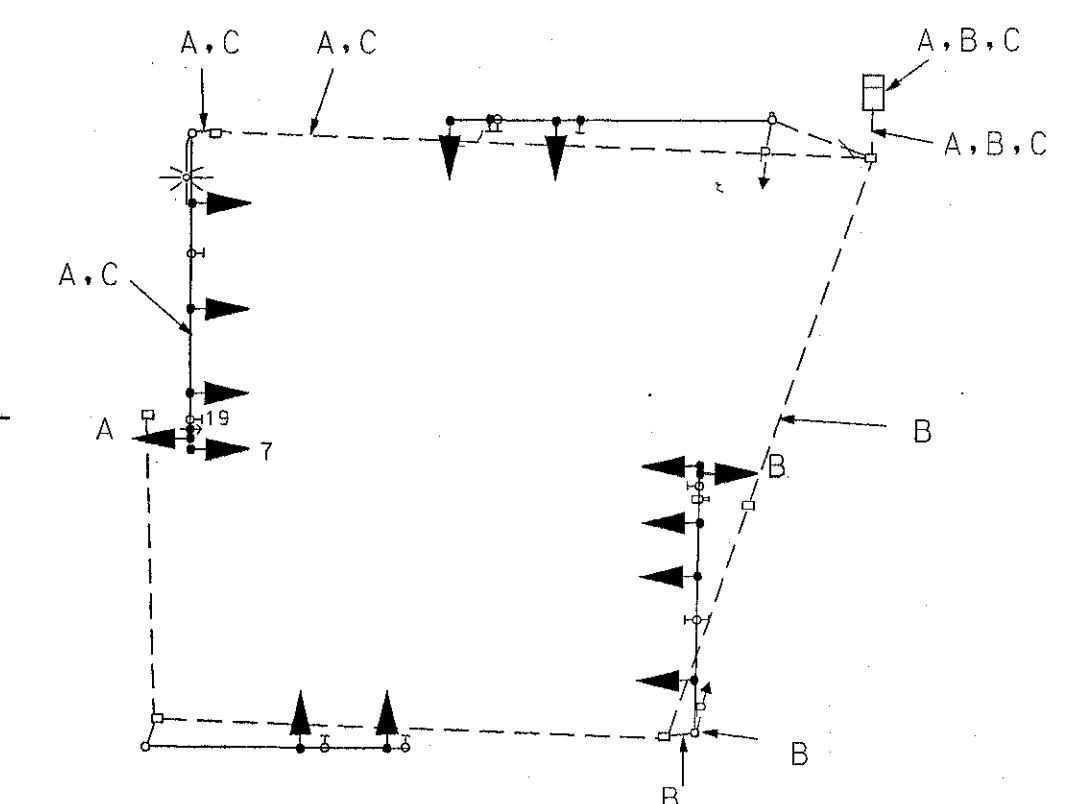
ITEM NO	QUANTITY	DESCRIPTION	
9000	1 EACH	D-PANEL W/HARNESS	THESE ITEMS TO BE CHARGED TO THE STATEWIDE DETECTOR UPGRADE PROGRAM
9002	4 EACH	AMPLIFIER 4-CH RACK MOUNT	

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
8009	18 EACH	FURNISH AND INSTALL OPTICALLY PROGRAMMED SIGNAL HEAD - 3 SECTION (BLACK-FACE)
8010	4 EACH	FURNISH AND INSTALL PEDESTRIAN SIGNAL HEAD SECTION
8011	26 EACH	FURNISH AND INSTALL 12" VEHICULAR TRAFFIC SIGNAL HEAD SECTION
9009 8016	1 EACH	FURNISH AND INSTALL OPTICOM #762 DISCRIMINATOR MODULE
9008 8018	1 EACH	FURNISH AND INSTALL 3M OPTICOM #721 DETECTOR EYE
8056	250 L.F.	FURNISH AND INSTALL 4-CONDUCTOR OPTICOM DETECTOR CABLE
8084	500 L.F.	FURNISH AND INSTALL 5-CONDUCTOR ELECTRICAL CABLE, NO. 14 AWG
9000 NEG.	3 EACH	FURNISH AND INSTALL 3M OPTICOM EMITTER SYSTEM 500 SERIES, VISIBLE LIGHT FILTER AND HARDWARE

WIRING DIAGRAM

A,B - 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG)
C - 4-CONDUCTOR ELECTRICAL OPTICOM CABLE



REVISIONS	APPROVALS
(A) INSTALL OPTICOM FOR FIREHOUSE AND UPGRADE SIGNAL HEADS TO BLACK-FACE 10/01	ORIGINAL
MEL [signature]	TEAM LEADER, TRAFFIC ENGINEERING DESIGN DIVISION
	NOTED
	ASST. CHIEF TRAFFIC ENGINEERING DESIGN DIVISION
	ON
	CHIEF, TRAFFIC ENGINEERING DESIGN DIVISION
	FILE
	DIRECTOR, TRAFFIC & SAFETY

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
MD 175 AT THUNDER HILL ROAD

DRAWN BY: J. Giorgianni
 CHECKED BY: G. Stimmer
 SCALE: 1"=20'
 DATE: 10-25-85

F.A.P. NO. 2385472509301
 S.H.A. NO. Howard
 COUNTY: 13017506.13
 LOG MILE:

TS NO. TS-467
 T.I.M.S. NO. 1 OF 2